

In the Claims:

1-18. (cancelled)

19. (currently amended) A method for measuring a user established white point balancing multiple color channels of a color display comprising the steps of:

a) providing a reference for the color white on a surface;

b) providing on the display at least the color white;

c) adjusting the color channels of the display to change the color white on the display to visually match the reference, in which said adjusting step is carried out by the user to establish said visual match between said adjusted color of white on said display and said reference for the color white on said surface; and

d) measuring with a sensor directed to the display the adjusted color white to obtain an updated white point of the display.

20. (previously presented) The method according to Claim 19 further comprising the step of storing the measured white point on a computer coupled to the display and sensor.

21. (previously presented) The method according to Claim 20 further comprising the step of updating color transformation information by the computer for displaying color in accordance with the measured white point.

22. (previously presented) The method according to Claim 19 further comprising the step of sharing information by said computer of the measured white point with other computers via a network coupling said computer with said other computers, in which said other computers are coupled to one or more color rendering devices and said other computers update color transformation information for said devices in response to said shared information to render color substantially the same as the color on said display.

23. (previously presented) The method according to Claim 19 further comprising the step of illuminating the reference while said adjusting step is carried out.

24. (currently amended) The method according to Claim 19 further comprising the step of verifying the white point by repeating step (b) in accordance with the measured white point, and repeating steps (c) and (d) when the white color provided on said display does not match the reference.

25. (previously presented) The method according to Claim 19 further comprising the step of measuring tone reproduction curves in one or more color channels on the display with said sensor.

26. (previously presented) The method according to Claim 25 further comprising the steps of :

storing the measured white point and tone reproduction curves on a computer coupled to the display and sensor; and

updating color transformation information by the computer for the display in accordance with the measured white point and tone reproduction curves.

27-31. (cancelled)

32. (new) The method according to Claim 19 wherein said display is a color video monitor.

33. (new) The method according to Claim 19 wherein said display is located at one site of a network of sites, and said one site is capable of communication over said network to one or more other sites, said method further comprising the step of storing said measured color of white on a computer system, coupled to said sensor and said display, at said one site with information identifying or locating said other sites.

34. (new) The method according to Claim 33 wherein one or more of said other sites have different types or models of rendering devices.

35. (new) The method according to Claim 33 wherein one or more of said other sites are capable of receiving said measured color of white from said computer system over said network to improve color matching between color rendered at said sites with said color on said display.

36. (new) The method according to Claim 19 wherein said sensor is one of an unitary colorimeter or an imaging colorimeter, said sensor is disposed with respect to said display to measure at least one of reflected or emitted light from said display.

37. (new) The method according to Claim 33 wherein said sites communicate over said network using a data structure comprising at least said information and said measured white point.

38. (new) The method according to Claim 33 wherein one or more of said sites are capable of communicating at least partly wirelessly over said network to one or more other said sites.

39. (new) A method for measuring a user established white point balancing multiple color channels of a color display, which is coupled to a computer system having a user interface and software for at least enabling user adjustment of each color channel quantity or offset providing the color of said display, said method comprising the steps of:

providing a reference for the color white on a surface;

outputting on the display by said computer system at least the color white;

adjusting by the user, via said user interface and software on said computer system, one or more of the color channels of the display to change the color white on said display until said color white on said display visually matches the color white reference to the user;

measuring the adjusted color white on said display with a sensor in which said sensor provides said measured color white to said computer system; and

storing said measured white color on said computer system received from said sensor.

40. (new) The method according to Claim 39 further comprising the step of illuminating said color white reference while carrying out said adjusting step.

41. (new) The method according to Claim 39 further comprising the step of communicating said measured white color with another computer system over a network in which said measured white color represents the balance of the color channels adjusted by the user.

42. (new) The method according to Claim 41 wherein said another computer system is coupled to at least one color rendering device, and said another computer system utilizes said measured white color to improve matching of color rendered on said color rendering device with said display.

43. (new) A method of remote proofing using a video monitor coupled to a computer system having color editing software, said method comprising the steps of:

providing a hard-copy image with controlled viewing illumination;

displaying digitally an image corresponding to said hard-copy image on said video monitor;

editing by a user said digital image with color editing software on the computer system until the user realizes a visual match between one or more aspects of said hard-copy image and said image on said video monitor; and

measuring by the computer system one or more of gamma, tone reproduction, or neutral balance of the visually matched digital image.

44. (new) The method according to Claim 43 further comprising the step of communicating one or more of gamma, tone reproduction, or neutral balance in accordance with said measuring step, or their correction functions, by said computer system, to one or more remote sites for use with color rendering devices at said sites to improve color matching between said devices.

45. (new) The method according to Claim 43 wherein said measuring step measured at least gamma and neutral balance, and said method further comprises the step of storing said edited color adjustments in a transformation table which maps original colors of the monitor to the colors after said editing step is carried out.

46. (new) The method according to Claim 43 further comprising the step of calibrating one or more of gamma, tone reproduction, and a neutral balance of the color channels of the video monitor prior to carrying out said displaying and editing steps.